

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

Claim 1. (Previously Presented) A composite rare-earth anisotropic bonded magnet, comprising:

(A) Cobalt-less R1 d-HDDR coarse powder with an average grain diameter of 40-200 μm and having micro-cracks, comprising:

1. Cobalt-less R1 d-HDDR anisotropic magnet powder, obtained by performing a d-HDDR treatment on a cobalt-less R1 alloy of a rare-earth element including yttrium (Y) (hereafter, "R1"), iron (Fe), and boron (B) as the main ingredients and fundamentally not containing cobalt; and
2. #1 surfactant that coats at least one part of the grain surface of said cobalt-less R1 d-HDDR anisotropic magnet powder; and

(B) R2 fine magnet powder with an average aspect ratio of 2 or less and average grain diameter 1-10 μm , comprising:

1. R2 anisotropic magnet powder with a maximum energy product $(BH)_{\text{max}}$ 240 kJ/m^3 or more and with a rare-earth element including yttrium (hereafter, "R2") as one of the principle ingredients; and
2. #2 surfactant that coats at least one part of the grain surface of said R2 anisotropic magnet Powder and

(C) a thermosetting resin as binder; wherein

the said bonded magnet contains 50-84 wt % of said Co-less R1 d-HDDR coarse magnet powder, 15-40 wt % of said R2 fine magnet powder, and 1-10 wt % of said thermosetting resin; and wherein

relative density (ρ/ρ_{th}) of the said bonded magnet, which is the ratio of volume density (ρ) to theoretical density (ρ_{th}), is 91-99%; and wherein

normalized grain count of the said Co-less R1 d-HDDR coarse magnet powder in the said bonded magnet, where per unit area apparent grain diameter is 20 μm or less, is 1.2×10^9 pieces/ m^2 or less;

the said composite rare-earth anisotropic bonded magnet having the special characteristics of outstanding magnetic properties and heat tolerance.

Claim 2. (Original) The composite rare-earth anisotropic bonded magnet recited in claim 1, wherein the above-mentioned R2 anisotropic magnet powder is SmFeN anisotropic magnet powder having samarium (Sm), iron (Fe), and nitrogen (N) as the main ingredients.

Claim 3. (Original) The composite rare-earth anisotropic bonded magnet recited in claim 1, wherein the above-mentioned R2 anisotropic magnet powder is Co-less R2 d-HDDR anisotropic magnet powder, obtained by performing a d-HDDR treatment on a Co-less R2 alloy having R2, Fe, and B as the main ingredients and fundamentally not containing cobalt.

Claim 4. (Original) The composite rare-earth anisotropic bonded magnet recited in claim 1 or claim 3, wherein when taking the whole as 100 at %, at least one of the above Co-less R1 d-HDDR anisotropic magnet powder or above R2 anisotropic magnet powder includes 0.05-5 at % of one or more of the rare-earth elements (hereafter, "R3") consisting of dysprosium (Dy), terbium (Tb), neodymium (Nd), and praseodymium (Pr).

Claim 5. (Original) The composite rare-earth anisotropic bonded magnet recited in claim 1 or claim 3, wherein when taking the whole as 100 at %, at least one of the above Co-less R1 d-HDDR anisotropic magnet powder or above R2 anisotropic magnet powder includes 0.01-1.5 at % of Lanthanum (La).

Claim 6. (Original) The rare-earth anisotropic bonded magnet recited in claim 1 or claim 3, wherein at least one of the above Co-less R1 d-HDDR anisotropic magnet powder or above Co-less R2 d-HDDR anisotropic magnet powder includes 0.001-6.0 at % of Co.

Claim 7. (Previously Presented) A composite rare-earth anisotropic bonded magnet compound comprising:

(A) Cobalt-less R1 d-HDDR coarse magnet powder having an average grain size of 40-200 μm and having micro-cracks, comprising:

1. Cobalt-less R1 d-HDDR anisotropic magnet powder, obtained by performing a d-HDDR treatment on a cobalt-less R1 alloy of a rare-earth element including yttrium (Y) (hereafter, "R1"), Fe, and B as the main ingredients and fundamentally not containing cobalt; and
2. #1 surfactant that coats at least one part of the grain surface of said cobalt-less R1 d-HDDR anisotropic magnet powder; and

(B) R2 fine magnetic powder with an average aspect ratio of 2 or less and average grain diameter 1-10 μm , comprising:

1. R2 anisotropic magnet powder with a maximum energy product $(BH)_{\text{max}}$ of 240 kJ/m^3 or more and with a rare-earth element including yttrium (hereafter, "R2") as one of the main ingredients; and

2. #2 surfactant that coats at least one part of the grain surface of said R2 anisotropic magnet powder; and

(C) a thermosetting resin as binder; wherein

the said compound contains 50-84 wt % of said Co-less R1 d-HDDR coarse magnet powder, 15-40 wt % of said R2 fine magnet powder, and 1-10 wt % of said thermosetting resin; and

the said compound having a composition that direct contact between grains of the said Co-less R1 d-HDDR coarse magnet powder is avoided by enveloping the grains in said thermosetting resin, said thermosetting resin being a ferromagnetic buffer which said R2 fine magnet powder is uniformly dispersed.

Claim 8. (Original) The composite rare-earth anisotropic bonded magnet compound recited in claim 7, wherein the above R2 anisotropic magnet powder is SmFeN anisotropic magnet powder having Sm, Fe, and N as the main ingredients.

Claim 9. (Original) The composite rare-earth anisotropic bonded magnet compound recited in claim 7, wherein the above R2 anisotropic magnet powder is Co-less R2 d-HDDR anisotropic magnet powder obtained by performing a d-HDDR treatment on a Co-less R2 alloy having R2, Fe, and B as the main ingredients and fundamentally not containing cobalt.

Claim 10. (Previously Presented) The composite rare-earth anisotropic bonded magnet compound recited in claim 7 or claim 9, wherein when taking the whole as 100 at %, at least one of the above Co-less R1 d-HDDR anisotropic magnet powder or above R2 anisotropic magnet powder includes 0.05-5 at % of one or more of the rare-earth elements

(hereafter, "R3") consisting of dysprosium (Dy), terbium (Tb), neodymium (Nd), and praseodymium (Pr).

Claim 11. (Original) The composite rare-earth anisotropic bonded magnet compound recited in claim 7 or claim 9, wherein when taking the whole as 100 at %, at least one of the above Co-less R1 d-HDDR anisotropic magnet powder or above R2 anisotropic magnet powder includes 0.01-1 at % of La.

Claim 12. (Original) The composite rare-earth anisotropic bonded magnet compound recited in claim 7 or claim 9, wherein either the above Co-less R1 d-HDDR anisotropic magnet powder or above Co-less R2 d-HDDR anisotropic magnet powder includes 0.001-6.0 at % of Co.

Claims 13. – 16. (Canceled)